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swt.cs.tu-berlin.de/~simons/n-body/papers/fmm-SC93.ps.gz

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the Barnes-Hut algorithm, Greengard's Fast **Multipole** Method(FMM)and the F
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Barnes-Hut algorithm is based on a hierarchical **octree** representation of spa
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algorithm (Barnes and Hut 1986)the fast **multipole** method (Greengard and R
method (Greengard and Rokhlin 1987)and the cell **multipole** method (Ding et
three dimensional space into a hierarchical **octree** of cells. At the start of each
wag.caltech.edu/home-pages/tahir/thornley1.ps

[A New Parallel Kernel-Independent Fast Multipole Method - Ying, Biros, Zorin](#)
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and can be extended to the FMM. The hashed **octree** data structures were fir
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opposed to using a cumulative scheme such as the **multipole** method [1,2]Fig
Anderson, C. R. An implementation of the fast **multipole** method without **multi**
Managing Flocking Objects with an **Octree** Spanning a Parallel Message-Pas
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


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












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







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EFIE, FMM, multilevel fast **multipole** techniques, **multipole** expansion, integral equa **near-field** to **far-field** transformation. I. I. NTRODUCTION ...

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The upward and downward pass corresponds to the one of the original **multipole** m Only different **near-field** and **far-field** definitions are used. ...

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In the future, the **octree** height could be corrected from one timestep to another wh costs of the **far field** and the **near field** computations become ...

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compressed **octree** [28] is built using a recursive decomposition of the domain ... th **far field** whose parents are in the **near field** of its parent. ...

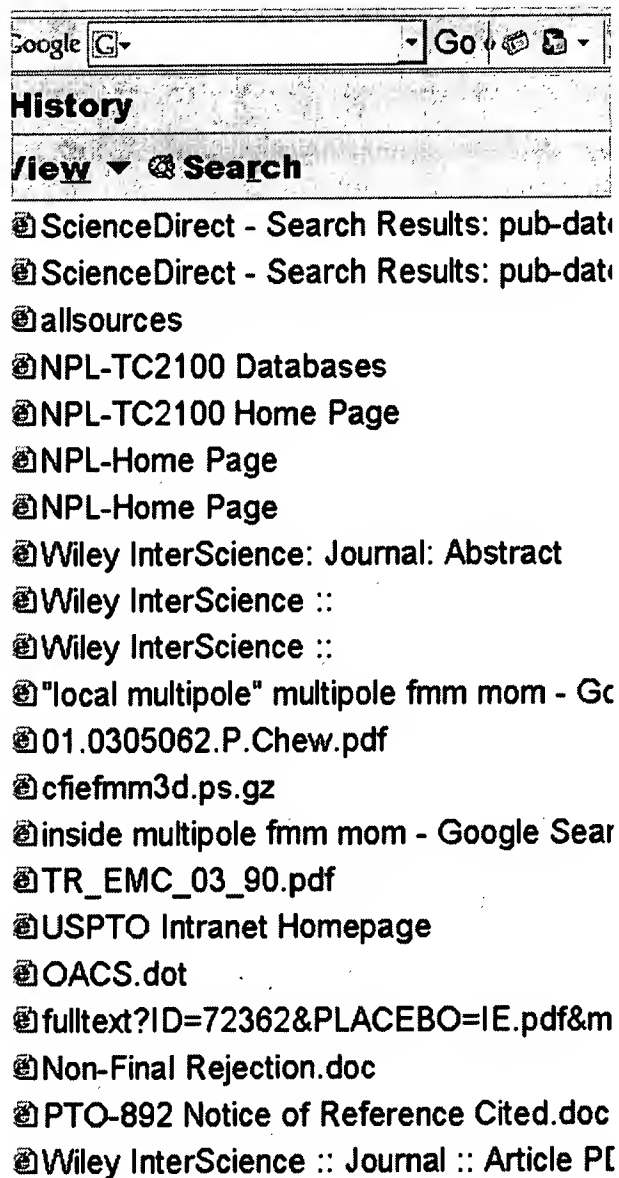
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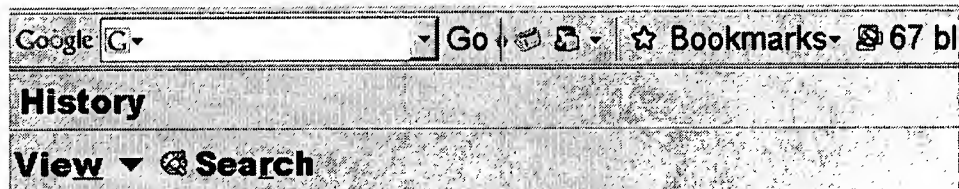
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